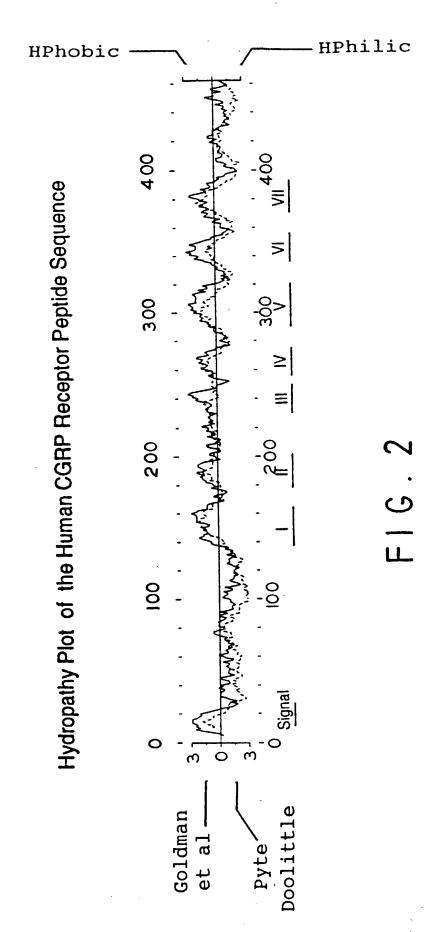
atg gag aaa aag tgt acc ctg tat ttt ctg gtt ctc ttg cct ttt ttt atg att ctt gtt L P F F F L V L M I С T  ${
m L}$ Y aca gca gaa tta gaa gag agt cct gag gac tca att cag ttg gga gtt act aga aat aaa Т 120 E D S I Q L G V S P 21 T E E atc atg aca gct caa tat gaa tgt tac caa aag att atg caa gac ccc att caa caa gca 180 D P Ι I M 0 C Y 0 K 0 Y Ε Α gaa ggc gtt tac tgc aac aga acc tgg gat gga tgg ctc tgc tgg aac gat gtt gca gca 240 T W D G WL С W N D V Y C N R gga act gaa tca atg cag ctc tgc cct gat tac ttt cag gac ttt gat cca tca gaa aaa 300 D P D Y F Q D F M 0 L С P gtt aca aag atc tgt gac caa gat gga aac tgg ttt aga cat cca gca agc aac aga aca S 360 F R Η Ρ Α N W D 0 D G I C tgg aca aat tat acc cag tgt aat gtt aac acc cac gag aaa gtg aag act gca cta aat 420 Ε K V K Τ Q C T Η N V N Y T ttg ttt tac ctg acc ata att gga cac gga ttg tct att gca tca ctg ctt atc tcg ctt 480 G Η G L S Ι Α S L L Ι Ι 141 L Y Τ ggc ata ttc ttt tat ttc aag agc cta agt tgc caa agg att acc tta cac aaa aat ctg T  $\Gamma$ Н C Q R Ι Y F K S L S 161 G ttc ttc tca ttt gtt tgt aac tct gtt gta aca atc att cac ctc act gca gtg gcc aac I I H 600 L T A V SVVT F V C N aac cag gcc tta gta gcc aca aat cct gtt agt tgc aaa gtg tcc cag ttc att cat ctt 660 K V S 0 F Ι S C N P V V Α T tac ctg atg ggc tgt aat tac ttt tgg atg ctc tgt gaa ggc att tac cta cac aca ctc 720 Y F W M L С E G Ι Y L 221 Y M G C N att gtg gtg gcc gtg ttt gca gag aag caa cat tta atg tgg tat tat ttt ctt ggc tgg Y F 780 Y Η L M W V F Α Ε K 0 Α gga ttt cca ctg att cct gct tgt ata cat gcc att gct aga agc tta tat tac aat gac Y Y 840 Ι Α R S L Н Α Р Α C Ι Ι aat tgc tgg atc agt tct gat acc cat ctc ctc tac att atc cat ggc cca att tgt gct 900 Y Ι Ι Η G P Ι L S S D T H L W Ι gct tta ctg gtg aat ctt ttt ttc ttg tta aat att gta cgc gtt ctc atc acc aag tta 960 R V L Ι F L L N Ι V Ŀ F 300 A aaa gtt aca cac caa gcg gaa tcc aat ctg tac atg aaa gct gtg aga gct act ctt atc Α K Α V R Т L Y M Α Ε S N Н 0

ttg gtg cca ttg ctt ggc att gaa ttt gtg ctg att cca tgg cga cct gaa gga aag att I E F V L I W P Ε G K ∹Ì 1080 P R G gca gag gag gta tat gac tac atc atg cac atc ctt atg cac ttc cag ggt ctt ttg gtc I M H I L M H F 1140 V Y D Y Q G L tct acc att ttc tgc ttc ttt aat gga gag gtt caa gca att ctg aga aga aac tgg aat G E V 0 Α Ι L R R N 1200  $\mathsf{C} \quad \mathsf{F} \quad \mathsf{F}$ N caa tac aaa atc caa ttt gga aac agc ttt tcc aac tca gaa gct ctt cgt agt gcg tct 1260 L R F G N S F S N S Ε Α I 0 tac aca gtg tca aca atc agt gat ggt cca ggt tat agt cat gac tgt cct agt gaa cac 1320 G Y H D C P S S D G P S  $\mathbf{T}$ Ι tta aat gga aaa agc atc cat gat att gaa aat gtt ctc tta aaa cca gaa aat tta tat 1380 H D I E N V L $\Gamma$ K Ρ Ε N Ι aat tga aaatagaaggatggttgtctcactgtttggtgcttctcctaactcaaggacttggacccatgactctgtag ccagaagacttcaatattaaatgactttggggaatgtcataaagaagagccttcacatgaaattagtagtgttgata 1536 agagtgtaacatccagctctatgtgggaaaaaagaaatcctggtttgtaatgtttgtcagtaaatactcccactatgcc 1615  $tgatgtgacgctactaacctgacatcaccaagtgtggaattggagaaaagcacaatcaacttttctgagctggtgtaag\ 1694$ attcsccccaagagacctagctaaggtctataaacatgaagggaaaattagcttttagttttaaaactctttatcccat 1852 cttgattggggcagttgactttttttttttcccagagtgccgtagtcctttttgtaactaccctctcaaatggacaata 1931 ccagaagtgaattatccctgctggctttcttttctctatgaaaagcaactgagtacaattgttatgatctactcatttg 2010 ctgacacatcagttatatcttgtggcatatccattgtggaaactggatgaacaggatgtataatatgcaatcttacttc 2089 tatatcattaggaaaacatcttagttgatgctacaaaacaccttgtcaacctcttcctgtcttaccaaacagtgggagg 2168 gaatteetagetgtaaatataaattttgeeetteeatttetaetgtataaaeaaattageaateattttatataaagaa 2247 aatcaatgaaggatttcttattttcttggaattttgtaaaaagaaattgtgaaaaatgagcttgtaaatactccattat 2326 tttattttatagtctcaaatcaaatacatacaacctatgtaatttttaaagcaaatatataatgcaacaatgtgtgtat 2405 2481



### FIG. 3

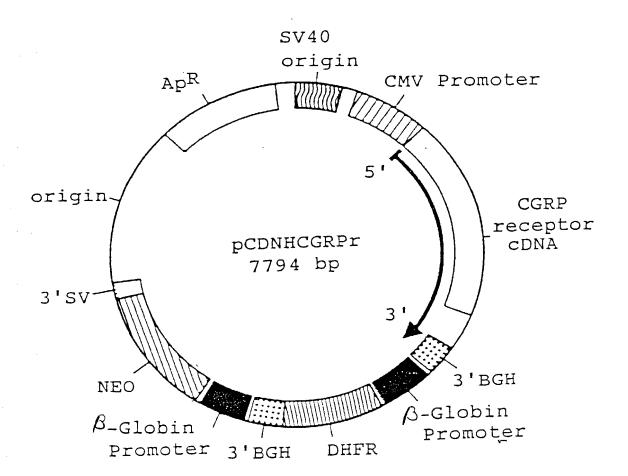
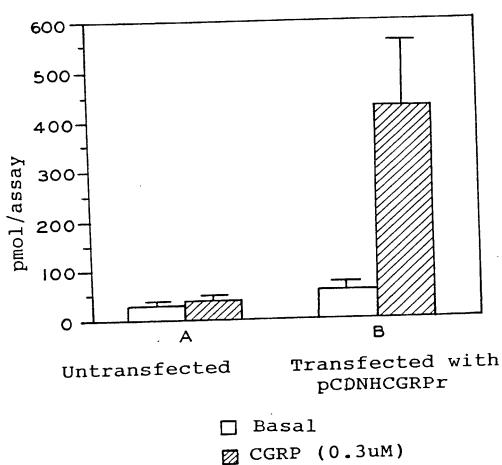


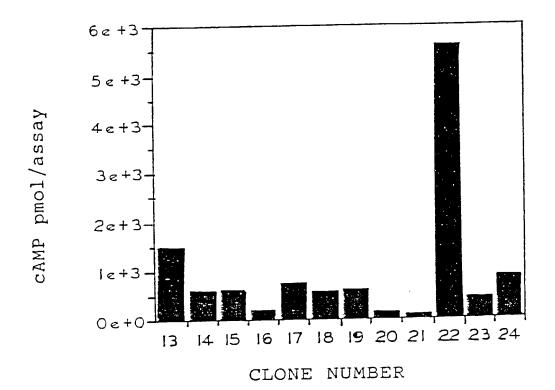
FIG.4

### CAMP RESPONSE IN 293 CELLS



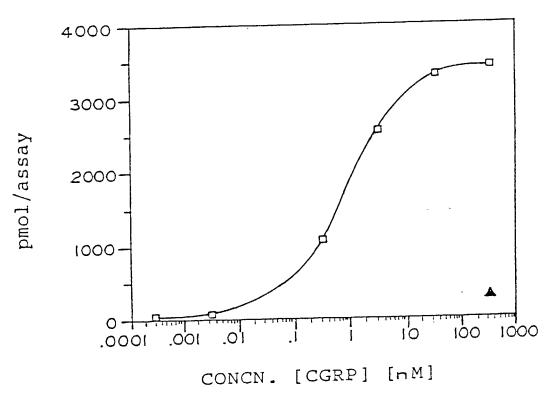
F1G.5

EFFECT OF CGRP TREATMENT OF 293
CELL LINES STABLY TRANSFORMED
WITH THE PCDNHCGRPT CONSTRUCT



### F1G.6

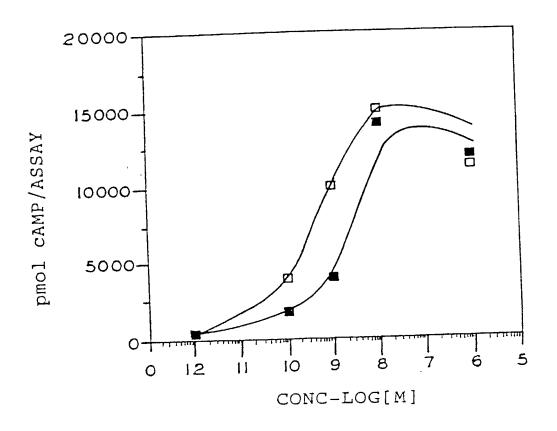
CGRP-MEDIATED CAMP IN pCDNHCGRPr STABLY
TRANSFORMED 293 CELLS (CLONE 22)



- Transfected
- ▲ Untransfect cells

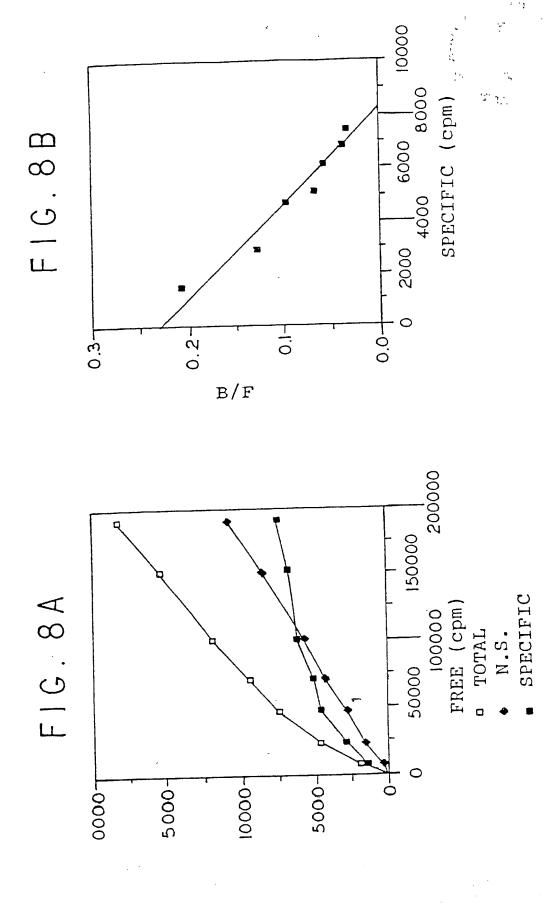
### F1G.7

CAMP IN pCDNHCGRPr STABLY
TRANSFORMED 293 CELLS (CLONE 22)



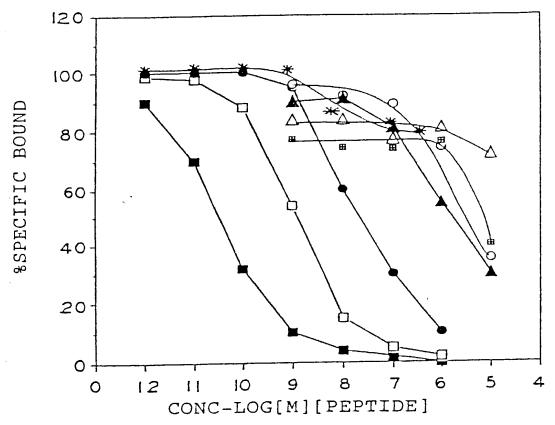
- ☐ CGRP
- CGRP 8-37 (100nM)

[1251]CGRP BINDING TO PCDNHCGPr TRANSFORMED 293 CELLS (CLONE 22) MEMBRANES



### F1G. 9

COMPETITION CURVES FOR
REPRESENTATIVE CGRP ANALOGS AGAINST
[1251]CGRP BINDING IN pCDNHCGRPT
TRANSFORMED CELL (CLONE22) MEMBRANES



CGRP>CGRP8-37>ADM>sCT8-32>sCT>VIP>Amylin,LCT

<del></del>	CGRP
	CGRP 8-37
	ADM
	sCT
	sCT 8-32
	hCT

Calcitonin Receptor Amino Acid Sequences  1 MEKKCTLYFLVL. LPFFMILVTAELEESPEDSIOLGVTRNKIMT 43
1 MRFTFTSRCLALFLLLNHPTPILPAFSNQTYPTIEPKPFLYVVGRKKMMD 50
44 AQYECYQKINQDPIQQAEGVYCNRTWDGWLCWNDVAAGTESMQLCPDYFQ 93
94 DFDPSEKVTKICDQDGNWFRHPASNRTWTNYTQCNVNTHEKVKTALNLFY 143
— 🖂
144 LTIIGHGLSIASLLISLGIFFYFKSLSCQRITLH 177
SISIFTLVISLGIFVFFRKLTTIFPLNWKYRKAI
178 KNLFFSFVCNSVVTIIHLTAVANNQALVATNPVSCKVSQFIHLYLNGCNY 227 MATCH WITH FIG. 10B

	MATCH WITH FIG. 10 A	
201	7	20
228	FWMLCEGIYLHTLIVVAVFAEKQHLMWYYFLGWGFPLIPACIHAIARSLY 277	11
251		300
278	YNDNCWISSDĮHLLYIIHGPICAALLVNLFFLLNIVRVLITKLKVTHQAE 3	27
301	FNDNCWLSVETHLLYIIHGPVMAALVVNFFFLLNIVRVLVTKMRETHEAE 35	350
328	SNLYMKAVRATLILVPLLGIEFVLIPWRPEGKIAEEVYDYIMHILMHFQG	377
351	SHMYLKAVKATMILVPLLGIQFVVFPWRPSNKMLGKIYDYVMHSLIHFQG	400
378		27
	•	
401	FFVATIYCFCNNEVQTTVKRQWAQFKIQWNQRWGRRPSNRSARAAAAAE 450	20
428		
	•	
451	451 AGDIPIYICHOEPRNEPANNOGEESAEIIPLNIIEOESSA 490	

### F1G.11A

# Comparison of Human Toll Gand Rat CGRP Receptor Amino Acid Sequences

249	11111111111111111111111111111111111111	-
249	200 NNOALVATNPVSCKVSQFIHLYLMGCNYFWMLCEGIYLHTLIVVAVFAEK 249	•
199		•
199	STATES TO THE STATE SCORITCH KNLFFSFVCNSVVTIHLTAVA	•
149	100 KVTKICDQDGNWFRHPDSNRTWTNYTLCNNSTHEKEKTALNLFYLTIIGH	-
149	100 KVTKICDQDGNWFRHPASNRTWTNYTQCNVNTHEKVKTALNLFYLTIIGH 149	
66		
66	50 QKIMQDPIQQAEGVYCNRTWDGWLCWNDVAAGTESMQLCPDYFQDFDPSE	
49	:     :     :      ::::::::::::::::::	
т Л	1 .MEKKCTLYFLVLLPFFMILVTAELEESPEDSIQLGVIKNKIMIAQIECI	

MATCH WITH FIG. 11 B

ម៉េដូវ៉ា។

ENVALKPEKMYDLVM 464

450

## FIG. IIB

# MATCH WITH FIG. 11A

400 NQYKIQFGNGFSHSDALRSASYTVSTISDVQGYSHDCPTEHLNGKSIQDI 449 450 ENVLLKPENLYN 461	250 QHLMWYYFLGWGFPLIPACIHAIARSLYYNDNCWISSDTHLLYIIHGPIC 299 250 QHLMWYYFLGWGFPLLPACIHAIARSLYYNDNCWISSDTHLLYIIHGPIC 299 300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349 300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349 350 VLIPWRPEGKIAEEVYDYIMHILMHFQGLLVSTIFCFFNGEVQAILRRNW 399 350 VLIPWRPEGKVAEEVYDYWHILMHYQGLLVSTIFCFFNGEVQAILRRNW 399 350 VLFPWRPEGKVAEEVYDYWHILMHYQGLLVSTIFCFFNGEVQAILRRNW 399 400 NQYKIQFGNSFSNSEALRSASYTVSTISDGPGYSHDCPSEHLNGKSIHDI 449 400 NQYKIQFGNGFSHSDALRSASYTVSTISDVQGYSHDCPTEHLNGKSIQDI 449
11111111111111111111111111111111111111	400 NQYKIQFGNSFSNSEALRSASYTVSTISDGPGYSHDCPSEHLNGKSIHDI 449
400 NOYKIQFGNSFSNSEALRSASYTVSTISDGPGYSHDCPSEHLNGKSIHUI 449	350 VLFPWRPEGKVAEEVYDYVMHILMHYQGLLVSTIFCFFNGEVQAILKKNW 355
350 VLFPWRPEGKVAEEVYDYVMHILMHYQGLLVSTIFCFFNGEVQAILMING 200 0000 NQYKIQFGNSFSNSEALRSASYTVSTISDGPGYSHDCPSEHLNGKSIHDI 449	350 VLIPWRPEGKIAEEVYDYIMHILMHFQGLLVSTIFCFFNGEVQAILRRNW 399
350 VLIPWRPEGKIAEEVYDYIMHILMHFQGLLVSTIFCFFNGEVQAILRRNW 399 11:111111111111111111111111111111111	AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF
300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349 350 VLIPWRPEGKIAEEVYDYIMHILMHFQGLLVSTIFCFFNGEVQAILRRNW 399 350 VLFPWRPEGKVAEEVYDYWHILMHYQGLLVSTIFCFFNGEVQAILRRNW 399 350 VLFPWRPEGKVAEEVYDYWHILMHYQGLLVSTIFCFFNGEVQAILRRNW 399 400 NQYKIQFGNSFSNSEALRSASYTVSTISDGPGYSHDCPSEHLNGKSIHDI 449	300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349
300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349 300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349 350 VLIPWRPEGKIAEEVYDYIMHILMHFQGLLVSTIFCFFNGEVQAILRRNW 399 350 VLFPWRPEGKVAEEVYDYVMHILMHYQGLLVSTIFCFFNGEVQAILRRNW 399 350 VLFPWRPEGKVAEEVYDYVMHILMHYQGLLVSTIFCFFNGEVQAILRRNW 399 400 NQYKIQFGNSFSNSEALRSASYTVSTISDGPGYSHDCPSEHLNGKSIHDI 449	250 QHLMWYYFLGWGFPLLPACIHAIARSLYYNDNCWISSDTHLLYIIHGPIC 299
250 QHLMWYYFLGWGFPLLPACIHAIARSLYYNDNCWISSDTHLLYIIHGPIC 299 250 QHLMWYYFLGWGFPLLPACHAIARSLYYNDNCWISSDTHLLYIIHGPIC 299 300 AALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATLILVPLLGIEF 349 111111111111111111111111111111111111	299 CHINAL CANCEDIT PACTHAIARSLYYNDNCWISSDTHLLYIIHGPIC 299